

~~SECRET~~Miscellaneous Mathematical Problems:

. . . . . AZIQOB: Six production runs plus three projection overlays were made for ORR. Inaccuracies are creeping into the projection plots due to hardware difficulties, namely plotting head overshoot. An attempt is being made by OCS to overcome this hardware deficiency by programming methods.

. . . . . ECAC: A stripping program was added to ECAC, checked out and two successful production runs made.

. . . . . MISTRAK/MILDEW, MISTRAK/TRAK: Program analysis is completed, coded and checked out for MILDEW. Heavy output was produced by the MILDEW program for application to the RAY TRACE program. TRAK was debugged and a trial run will be made.

. . . . . RAY TRACE: Supplementary subroutine analysis was completed and programmed. The original program was revised for compatibility with in-house computer systems.

. . . . . RESO: Program was checked out and a complete production run made with output available 1 October.

. . . . . SPHERE: A new program to trace rays through the ionosphere is under development.

. . . . . VOYAGE: This program was completed and production runs were made. Modifications are being made to provide interpolated informational output and to offer option of map scaling. Production runs were made for OSI. DIA is providing additional input data.

Project CHIVE:

. . . . . The tasks in Group I (Requirements and Plans) and Group II (Systems Design) have been consolidated under the general heading of Systems Design with [ ] of the CHIVE Task Force (CTF) in charge of this systems integration activity.

. . . . . Detailed specifications are being prepared by CTF for the CDC 915 Page Reader. A letter of intent has been issued to rent the 915 for one year. OCS and OCR personnel are being trained on the 915 System, including the CDC 8092 computer.

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. . . . Detailed plans and schedules for Phase III implementation have been drafted for OCR management approval. These include: (a) a milestone network of development steps, (b) a Gantt Chart showing man-months per task, (c) guidelines on the biographic area problems, (d) a list of OCR nominees for the CHIVE Task Force, etc.

. . . . A detailed study has been made of the OCR/SR detailed index files to determine the processing that would be necessary to convert these punched card files to mag tape records for CHIVE.

. . . . Preliminary conclusions from the study of the Intellofax Index are that conversion to an EDP oriented system is not feasible. The study has been extended to determine possible methods for utilization of the Intellofax Reference System files in a non-converted form.

. . . . Work on security specifications for CHIVE was concentrated on the logical file security problems with some initial work on identifying the physical security problems.

. . . . The Current Awareness Support Group studied the OCR/SR permuted title indexing operation and also obtained background information on KWIC indexing techniques. Most KWIC-type applications are on an IBM 1401 computer; reprogramming would be required for S/360 application.

. . . . A draft has been prepared of the recommended organizational structure space plan, etc., for the document delivery system.

. . . . Progress was made on reviewing and modifying the Intelligence Subject Code for CHIVE use.

. . . . A working paper was prepared which outlines the proposed CHIVE Organizational Dictionary.

#### Project ALP:

. . . . The Russian language update programs were checked at IBM Kingston early in September and found to be unsatisfactory; i. e., these programs had not been completely debugged and the documentation was poor. IBM will continue to perfect these programs and they will be checked again at a later date.

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. . . . . A plan was formalized for carrying out the on-site acceptance testing of the ALP system. The acceptance test is scheduled for October.

#### Systems Programming:

. . . . . SOF-8: An improved version of the OCS System Operating File for the 7010 computer is being prepared by the Technical Staff. SOF-8 is being designed to perform automatic checks when a job is being processed and to standardize the steps to be taken when errors occur. The target date for implementing SOF-8 is 26 October.

. . . . . 7090 System: Modifications made the previous month to IBSYS, the IBM operating system for the 7090 computer, proved satisfactory. No further changes have been made.

. . . . . 360/30 System: The Multi-task utility program, which is being developed by the Technical Staff, is in its final debug stage. This effort is on schedule and will be completed soon after the second printer is available on the 360 Mod 30 computer.

#### Operations:

. . . . . IBM 360/30 System Delivered: The first third generation computer system in CIA and one of the first outside of IBM's own facilities was delivered to the CIA Computer Center on 7 September 1965. The Technical Staff began to use this system on 21 September, however, for test and assembly of the programs and operating system. The 1403-2 Printer should be operational early in October which will permit final system check out and the beginning of acceptance testing. The Disk Storage is not required during this phase. The current delivery schedule for Disk Storage is late October. The IBM 1401 System is being held at reduced rental rates for backup until all input/output processing has been transferred to the 360/30 System. This should be accomplished before the end of the year.

. . . . . ALP System Installed: The automatic Language Processing System (ALP) was delivered to the CIA Computer Center on 15 September. IBM Engineers from Kingston, New York and local customer engineers set up the equipment and ran preliminary tests during the following two weeks. Acceptance testing of the System will begin early in October.